

Public Information Meeting

State Project No. 58-332

**Reconstruction of
Bridge Nos. 03330 & 03331**

**Route 349 over Amtrak Railroad
Groton, Connecticut**

**Project 58-332: Route 349 Over Amtrak
Connecticut Department of Transportation**



Project Location



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Connecticut Department of Transportation



CTDOT Role and Mission

Bureau of Engineering and Construction

Transportation Project Responsibilities

- **Engineering design**
- **Construction**
- **Inspection**

Contact: Ms. Lesgie M. Ruiz

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Design Consultants

CTDOT has retained

LOCHNER

**to provide design services for this project with
Close Jensen & Miller (CJM) as CTDOT Liaison**

Lochner Contact:

Mr. Ryan Allard, P.E.

Roadway Engineer

Close Jensen & Miller Contact:

Mr. Sal Cugno, P.E.

Project Engineer

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Project Goals

- **Increased safety of the traveling public**
 - Replace girders and deck for both bridges
 - Improved vertical clearance
- **Ensure continued Amtrak rail service**
- **Minimize construction disruptions**
 - Maintain one lane of traffic over each bridge throughout construction
 - Minimize disruption to Amtrak and Rail Freight operations
- **Reduce future maintenance costs**
 - Eliminating deck joints
- **Effectively use funds**



Reasons for Reconstruction

- **Girder Deficiencies**
 - Edge spalls
 - Multiple exposed prestressing bars
- **Substructure Repairs**
 - Minor repairable cracks and spalls
- **Undesirable Railroad Clearance**
 - Increase from 18'-9" to 20'-6"



Existing Bridges



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Existing Bridges (cont'd)

- **Bridge Geometric Data**
 - Total length: 164'
 - Deck width: 48' curb-to-curb
 - Overall width: 51'-6" out-to-out
 - 6% +/- superelevation
- **Concrete slab on precast concrete beams**
- **Concrete abutments and piers**



Existing Superstructure



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Existing Substructure



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Track Level View



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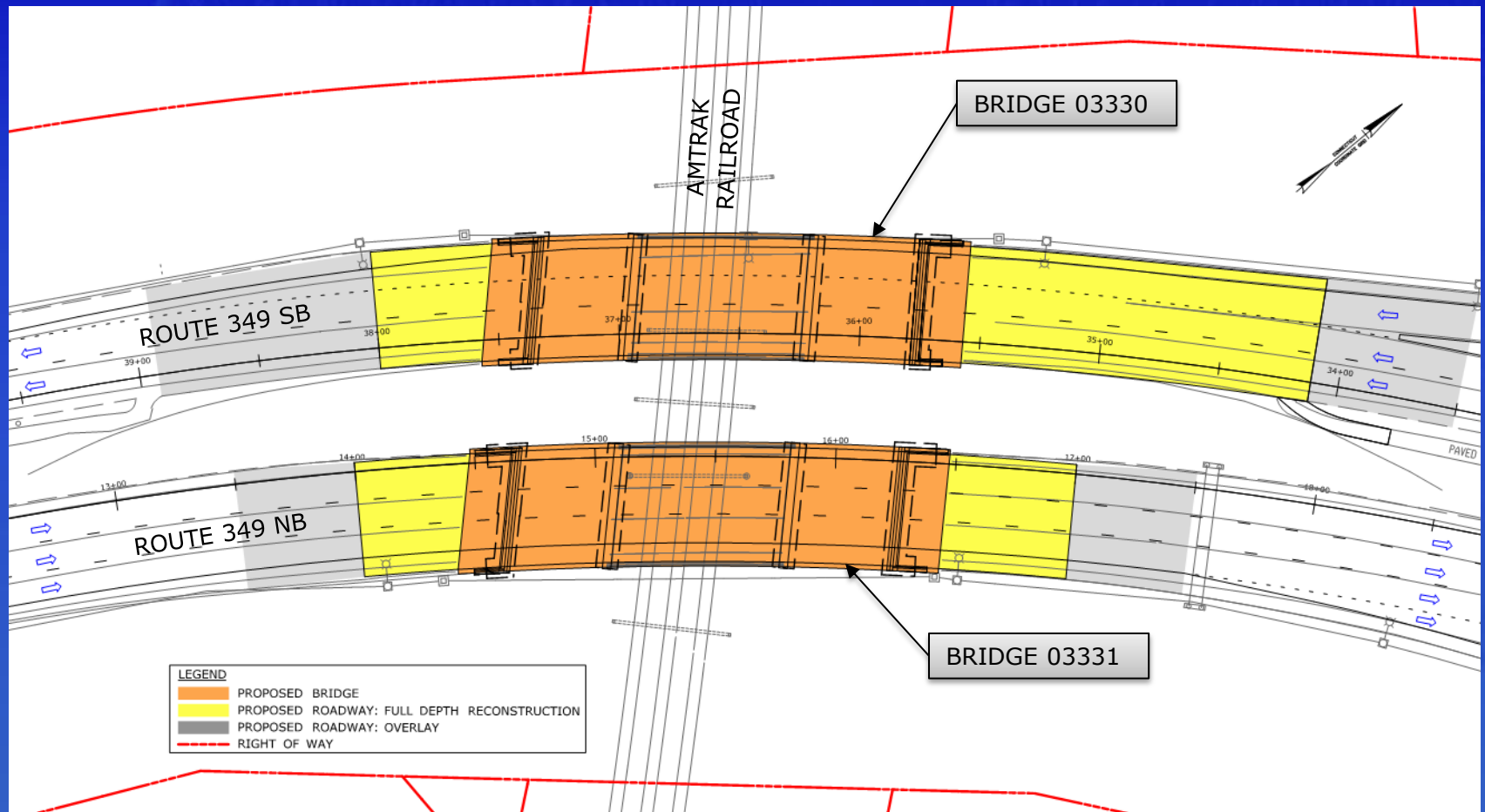


Proposed Construction

- **Precast concrete box beams**
- **Match existing bridge dimensions**
- **Minor substructure repair to be compatible with new superstructure**
- **Adjust Route 349 SB roadway profile**
- **Place new solid metal fences for railroad**
- **New grounding and bonding**



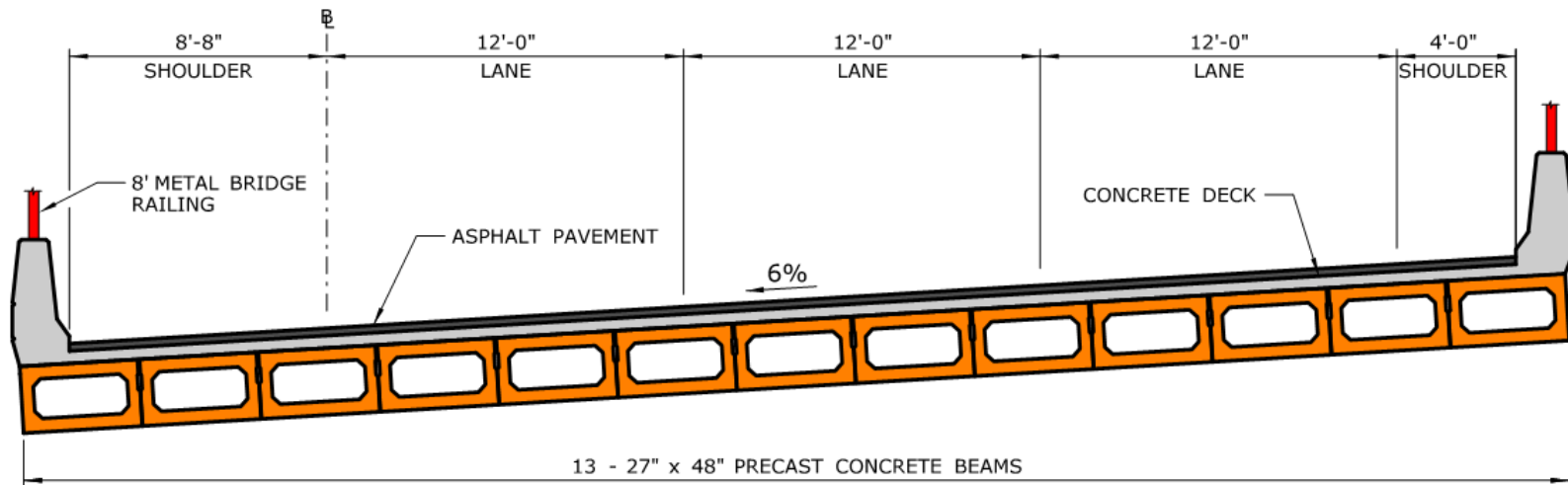
Proposed Bridge Plan



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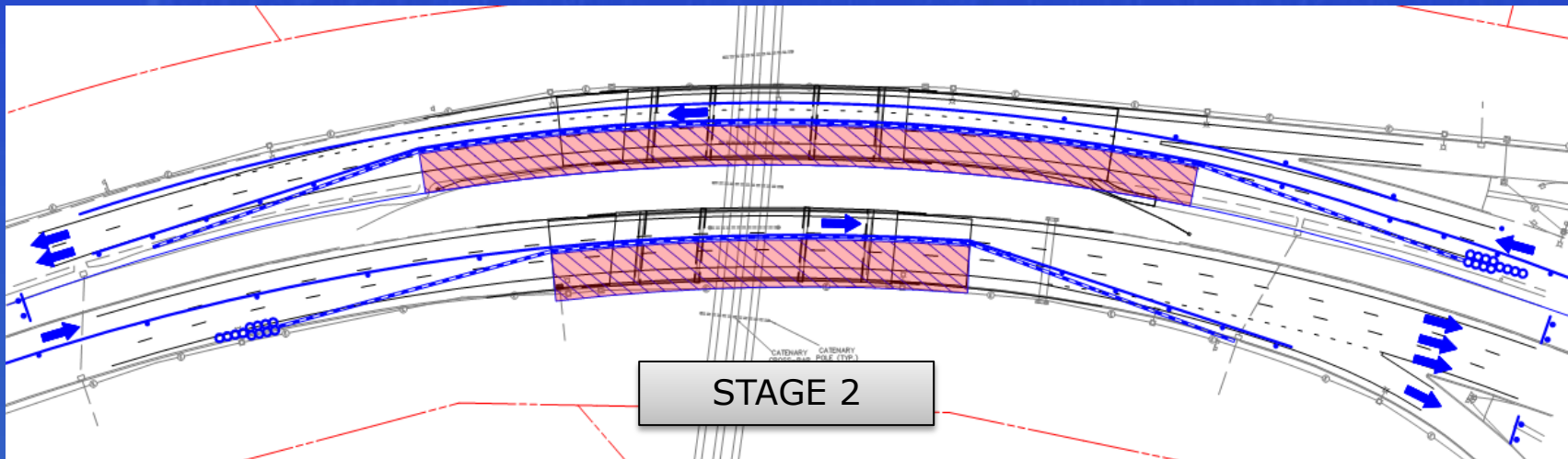
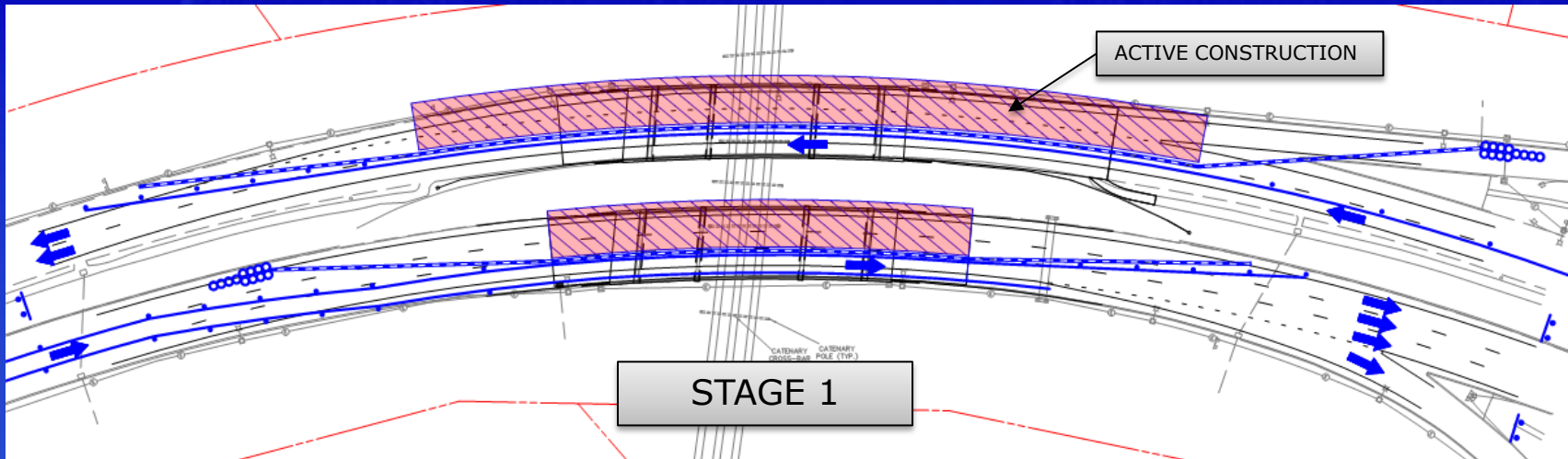
Proposed Bridge Section



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Construction Staging



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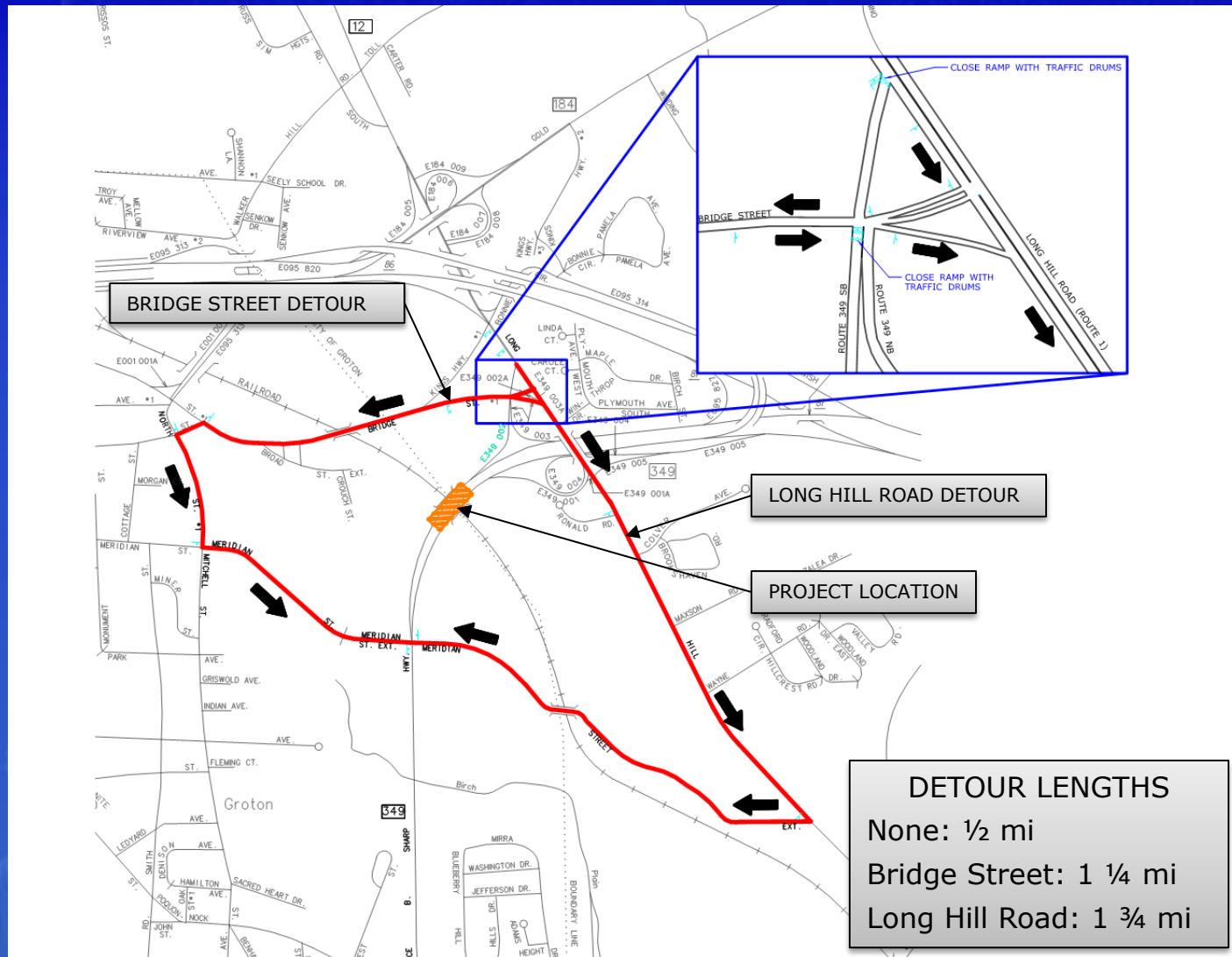


Maintenance & Protection of Traffic

- **One lane will be maintained in each direction**
 - Short stoppages to set girders (night/off-peak)
 - Short stoppages for demolition work (night/off-peak)
- **Route 1 NB ramp onto Route 349 SB will be closed**
 - Detour access via Bridge Street and Meridian Street
- **Roadway lighting will be maintained throughout construction**
- **Temporary adjustment of right turn lane at Meridian Street**



Traffic Detour Plan



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Utility Impacts

Utilities at Bridges 03330 & 03331:

- **Roadway lighting, with wiring and conduits running through parapets**
- **Electrified railroad below bridge**



Property Impacts

No anticipated temporary or permanent property impacts.

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Project Costs

Estimated Project Cost: \$12.0 million

Bridge reconstruction with State and Federal funds

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Project Schedule

Construction is anticipated to begin in the Spring of 2016 and end in the Summer of 2017.

The schedule is preliminary and is predicated upon the availability of funding and the receipt of railroad access permits and agreements.



Thank you for your attention!

Any Questions?

CTDOT Contact Information

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